

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Le, Vu Examiner #: 71572 Date: 8/27/02
 Art Unit: 2613 Phone Number 30 _____ Serial Number: 101607104
 Mail Box and Bldg/Room Location: CPO/2 6D4 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

51999,827

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>Kej</u>		NA Sequence (#) _____	STN _____
Searcher Phone #: <u>305-4071</u>		AA Sequence (#) _____	Dialog <input checked="" type="checkbox"/>
Searcher Location: _____		Structure (#) _____	Questel/Orbit <input checked="" type="checkbox"/>
Date Searcher Picked Up: <u>8/27/02</u>		Bibliographic _____	Dr.Link _____
Date Completed: <u>8/27/02</u>		Litigation <input checked="" type="checkbox"/>	Lexis/Nexis <input checked="" type="checkbox"/>
Searcher Prep & Review Time: _____		Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____		Patent Family _____	WWW/Internet _____
Online Time: <u>15</u>		Other _____	Other (specify) _____

Query/Command : prt max legalall

1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US5999827 A 19991207 [US5999827]
TI - (A) Communication terminal apparatus and control method thereof
PA - (A) SONY CORP (JP)
IN - (A) AJIRO ATSUSHI (JP); ODAKA KENTARO (JP); SUDO FUKUHARU (JP); USHINO TATSUJI (JP); KOBAYASHI TETSUO (JP); KUNIHIRO TAKUSHI (JP); TERAUCHI TOSHIRO (JP)
AP - US93294297 19970917 [1997US-0932942]
PR - US93294297 19970917 [1997US-0932942]
JP10435094 19940420 [1994JP-0104350]
JP23232794 19940831 [1994JP-0232327]
US42194595 19950413 [1995US-0421945]
IC - (A) H04B-001/38 H04M-001/00
EC - H04M-001/247F
H04M-001/2745D
H04M-001/725F1K
ICO - T04M-001/2745
PCL - ORIGINAL (O) : 455564000; CROSS-REFERENCE (X) : 345169000 455090000 455566000 455575000
DT - Basic
CT - US4885771; US5237311; US5422656; US5436954; US5627531; US5758295; CA2012199; EP0463582; EP0588210; EP0602840; DE9404084; JP04245837
STG - (A) United States patent
AB - A communication terminal apparatus such as a portable telephone apparatus has a main body, a selection operation unit, an operation inputting unit, a display unit, and a controller. The main body has a speaker and a microphone. The selection operation unit is provided on the main body and selects one mode from a plurality of modes of the communication terminal apparatus. The operation inputting unit is provided on the main body and changes functions based on the mode selected by the selection operation unit. The display unit is provided on the main body and displays information required for selection operation or inputting operation by the selection operation unit and/or the operation inputting unit. The controller sets a mode selected based on the input from the selection operation unit, and switches a function of the operation inputting unit based on the input from the selection operation unit. The controller controls display operation of the display unit based on the input from the selection operation unit and/or the operation inputting unit.

1 / 1 LGST - ©LEGSTAT

PN - US 5999827 [US5999827]
AP - US 932942/97 19970917 [1997US-0932942]
DT - US-P
ACT - 19970917 US/AE-A
APPLICATION DATA (PATENT)
US 932942/97 19970917 [1997US-0932942]

19991207 US/A
PATENT

20020625 US/RF
REISSUE APPLICATION FILED
20011203

UP - 2002-26

I / I CRXX - ©CLAIMS/RRX

PN - 5,999,827 A 19991207 [US5999827]

PA - Sony Corp JP

ACT - 20011203 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020625
REISSUE REQUEST NUMBER: 10/007104
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2682

Reissue Patent Number:

I / I PAST - ©Thomson Derwent

AN - 200226-001846

PN - 5999827 A [US5999827]

OG - 2002-06-25

ACT - REISSUE APPLICATION FILED

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5999827

<=1> GET 1st DRAWING SHEET OF 28

December 7, 1999

Communication terminal apparatus and control method thereof

REISSUE: December 3, 2001 - Reissue Application filed Ex.

Gp.: 2682; Re. S.N. 10/007,104 June 25, 2002

APPL-NO: 08932942

FILED-DATE: September 17, 1997

GRANTED-DATE: December 7, 1999

CORE TERMS: display, screen, input, dial, controller, jog, displayed, menu, cursor, user ...

ENGLISH-ABST:

A communication terminal apparatus such as a portable telephone apparatus has a main body, a selection operation unit, an operation inputting unit, a display unit, and a controller. The main body has a speaker and a microphone. The selection operation unit is provided on the main body and selects one mode from a plurality of modes of the communication terminal apparatus. The operation inputting unit is provided on the main body and changes functions based on the mode selected by the selection operation unit. The display unit is provided on the main body and displays information required for selection operation or inputting operation by the selection operation unit and/or the operation inputting unit. The controller sets a mode selected based on the input from the selection operation unit, and switches a function of the operation inputting unit based on the input from the selection operation unit. The controller controls display operation of the display unit based on the input from the selection operation unit and/or the operation inputting unit.

LEXIS-NEXIS

Library: PATENT

File: ALL

5,999,827 OR 5999827

LEXIS-NEXIS
Library: PATENT
File: CASES

Your search request has found no CASES.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,999,827 OR 5999827

LEXIS-NEXIS
Library: PATENT
File: JNLS

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

5,999,827 OR 5999827

LEXIS-NEXIS
Library: NEWS
File: CURNWS

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To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

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S2 1 PN=US 5999827
?t 2/39/1

2/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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12370799

Basic Patent (No,Kind,Date): FI 9501840 A0 19950418 <No. of Patents: 015>

Patent Family:

Patent No	Kind	Date	AppliC No	Kind	Date	
CN 1123509	A	19960529	CN 95105782	A	19950420	
CN 1313714	A	20010919	CN 2001104975	A	20010223	
EP 679003	A2	19951025	EP 95302638	A	19950420	
EP 679003	A3	19990616	EP 95302638	A	19950420	
FI 9501840	A	19951021	FI 951840	A	19950418	
FI 9501840	A0	19950418	FI 951840	A	19950418	(BASIC)
JP 7297891	A2	19951110	JP 94104350	A	19940420	
JP 8079360	A2	19960322	JP 94232327	A	19940831	
JP 3067006	B2	20000717	JP 94232327	A	19940831	
US 5987336	A	19991116	US 950512	A	19971021	
US 5999827	A	19991207	US 932942	A	19970917	
US 6131048	A	20001010	US 195084	A	19981118	
US 6138039	A	20001024	US 195082	A	19981118	
US 6198948	BA	20010306	US 339751	A	19990624	
US 6223058	BA	20010424	US 193393	A	19981118	

Priority Data (No,Kind,Date):

JP 94104350	A	19940420
JP 94232327	A	19940831
US 950512	A	19971021
US 421945	B1	19950413
US 932942	A	19970917
US 421945	B3	19950413
US 195084	A	19981118
US 932942	A3	19970917
US 195082	A	19981118
US 339751	A	19990624
US 950512	A3	19971021
US 193393	A	19981118

PATENT FAMILY:

CHINA (CN)

Patent (No,Kind,Date): CN 1123509 A 19960529
PORTABLE TELEPHONE (English)
Patent Assignee: SONY CORP (JP)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP); KOBAYASHI TETSUO (JP)
Priority (No,Kind,Date): JP 94104350 A 19940420; JP 94232327 A 19940831
AppliC (No,Kind,Date): CN 95105782 A 19950420
IPC: * H04Q-007/32
Derwent WPI Acc No: * G 95-360423
Language of Document: Chinese
Patent (No,Kind,Date): CN 1313714 A 20010919
COMMUNICATION TERMINAL APPARATUS AND CONTROL THEREOF (English)
Patent Assignee: SONY CORP (JP)
Author (Inventor): FUKUJI SUTO (JP); TAKUJI KUNIHIRO (JP); TETSUO OHAYASHI (JP)
Priority (No,Kind,Date): JP 94104350 A 19940420; JP 94232327 A 19940831
AppliC (No,Kind,Date): CN 2001104975 A 20010223
IPC: * H04Q-007/32
Derwent WPI Acc No: * G 95-360423
Language of Document: Chinese

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 679003 A2 19951025

· COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF. (English; French; German)

Patent Assignee: SONY CORP (JP)

Author (Inventor): SUDO FUKUHARU C O SONY CORPORA (JP); KUNIHIRO TAKUSHI C O SONY CORP (JP); KOBAYASHI TETSUO C O SONY CORP (JP); AJIRO ATSUSHI C O SONY CORPORA (JP); ODAKA KENTARO C O SONY CORPORA (JP); USHINO TATSUJI C O SONY CORPOR (JP); TERAUCHI TOSHIRO C O SONY CORP (JP)

Priority (No,Kind,Date): JP 94104350 A 19940420; JP 94232327 A 19940831

Applic (No,Kind,Date): EP 95302638 A 19950420

Designated States: (National) DE; FR; GB; SE

IPC: * H04M-001/72; H04M-001/274

Derwent WPI Acc No: * G 95-360423; G 95-360423

Language of Document: English

Patent (No,Kind,Date): EP 679003 A3 19990616

COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF. (English; French; German)

Patent Assignee: SONY CORP (JP)

Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP); KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTARO (JP); USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)

Priority (No,Kind,Date): JP 94104350 A 19940420; JP 94232327 A 19940831

Applic (No,Kind,Date): EP 95302638 A 19950420

Designated States: (National) DE; FR; GB; SE

IPC: * H04M-001/72; H04M-001/274

Derwent WPI Acc No: * G 95-360423

Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 679003 P 19940420 EP AA PRIORITY (PATENT APPLICATION) (PRIORITY (PATENTANMELDUNG))

EP 679003 P 19940831 EP AA PRIORITY (PATENT APPLICATION) (PRIORITY (PATENTANMELDUNG))

EP 679003 P 19950420 EP AE EP-APPLICATION (EUROPAEISCHE ANMELDUNG)

EP 679003 P 19951025 EP AK DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT: (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)

DE FR GB SE
EP 679003 P 19951025 EP A2 PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)

EP 679003 P 19990616 EP AK DESIGNATED CONTRACTING STATES IN A SEARCH REPORT: (IN EINEM RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)

DE FR GB SE
EP 679003 P 19990616 EP A3 SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))

EP 679003 P 20000126 EP 17P REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT)
19991125

EP 679003 P 20020508 EP 17Q FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID)
20020320

FINLAND (FI)

Patent (No,Kind,Date): FI 9501840 A 19951021
KOMMUNIKATIONSTERMINALANORDNING OCH FOERFARANDE FOER DESS KONTROLL
(Swedish)
Patent Assignee: SONY CORP (JP)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTRARO (JP);
USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
Priority (No,Kind,Date): JP 94104350 A 19940420; JP 94232327 A
19940831
Applc (No,Kind,Date): FI 951840 A 19950418
IPC: * H04M
Derwent WPI Acc No: * G 95-360423
Language of Document: Finnish; Swedish
Patent (No,Kind,Date): FI 9501840 A0 19950418
KOMMUNIKATIONSTERMINALANORDNING OCH FOERFARANDE FOER DESS KONTROLL
(Swedish)
Patent Assignee: SONY CORP (JP)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTRARO (JP);
USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
Priority (No,Kind,Date): JP 94104350 A 19940420; JP 94232327 A
19940831
Applc (No,Kind,Date): FI 951840 A 19950418
IPC: * H04M
Derwent WPI Acc No: * G 95-360423
Language of Document: Finnish; Swedish

FINLAND (FI)

Legal Status (No,Type,Date,Code,Text):
FI 951840 A 19950418 FI AE New application filed (Uusi
hakemus)
FI 951840 A 19950418

JAPAN (JP)

Patent (No,Kind,Date): JP 7297891 A2 19951110
COMMUNICATION TERMINAL (English)
Patent Assignee: SONY CORP
Author (Inventor): SUDO FUKUJI
Priority (No,Kind,Date): JP 94104350 A 19940420
Applc (No,Kind,Date): JP 94104350 A 19940420
IPC: * H04M-001/02; H04Q-007/32; H04M-001/23
Derwent WPI Acc No: * G 95-360423
Language of Document: Japanese
Patent (No,Kind,Date): JP 8079360 A2 19960322
COMMUNICATION TERMINAL EQUIPMENT (English)
Patent Assignee: SONY CORP
Author (Inventor): KUNIHIRO TAKUSHI; SUDO FUKUJI
Priority (No,Kind,Date): JP 94232327 A 19940831
Applc (No,Kind,Date): JP 94232327 A 19940831
IPC: * H04M-001/274; H04Q-007/32; H04Q-007/38
Derwent WPI Acc No: * G 95-360423
Language of Document: Japanese
Patent (No,Kind,Date): JP 3067006 B2 20000717
Patent Assignee: SONY CORP
Author (Inventor): KUNIHIRO TAKUSHI; SUDO FUKUJI
Priority (No,Kind,Date): JP 94232327 A 19940831
Applc (No,Kind,Date): JP 94232327 A 19940831
IPC: * H04M-001/274; H04M-001/00; H04M-001/02; H04Q-007/32;
H04Q-007/38
Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5987336 A 19991116
COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF (English)
Patent Assignee: SONY CORP (JP)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTARO (JP);

USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
Priority (No,Kind,Date): US 950512 A 19971021; JP 94104350 A
19940420; JP 94232327 A 19940831; US 421945 B1 19950413
Applc (No,Kind,Date): US 950512 A 19971021
National Class: * 455566000; 455575000; 455090000
IPC: * H04B-001/38; H04M-001/00
Derwent WPI Acc No: * G 95-360423
Language of Document: English

Patent (No,Kind,Date): US 5999827 A 19991207
COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF (English)
Patent Assignee: SONY CORP (JP)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTARO (JP);
USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
Priority (No,Kind,Date): US 932942 A 19970917; JP 94104350 A
19940420; JP 94232327 A 19940831; US 421945 B3 19950413
Applc (No,Kind,Date): US 932942 A 19970917
National Class: * 455564000; 455566000; 455575000; 455090000;
345169000
IPC: * H04B-001/38; H04M-001/00
Derwent WPI Acc No: * G 95-360423
Language of Document: English

Patent (No,Kind,Date): US 6131048 A 20001010
COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF (English)
Patent Assignee: SONY CORP (JP)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTARO (JP);
USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
Priority (No,Kind,Date): US 195084 A 19981118; JP 94104350 A
19940420; JP 94232327 A 19940831; US 932942 A3 19970917; US
421945 B3 19950413
Applc (No,Kind,Date): US 195084 A 19981118
Addnl Info: 5999827 Patented
National Class: * 455566000; 455575000; 455090000
IPC: * H04B-001/38; H04M-001/00
Derwent WPI Acc No: * G 95-360423
Language of Document: English

Patent (No,Kind,Date): US 6138039 A 20001024
COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF (English)
Patent Assignee: SONY CORP (JP)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTARO (JP);
USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
Priority (No,Kind,Date): US 195082 A 19981118; JP 94104350 A
19940420; JP 94232327 A 19940831; US 932942 A3 19970917; US
421945 B3 19950413
Applc (No,Kind,Date): US 195082 A 19981118
National Class: * 455566000; 345467000; 345159000
IPC: * H04B-001/38; H04M-001/00
Derwent WPI Acc No: * G 95-360423
Language of Document: English

Patent (No,Kind,Date): US 6198948 BA 20010306
COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF (English)
Patent Assignee: SONY CORP (US)
Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTARO (JP);
USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
Priority (No,Kind,Date): US 339751 A 19990624; JP 94104350 A
19940420; JP 94232327 A 19940831; US 950512 A3 19971021; US
421945 B3 19950413
Applc (No,Kind,Date): US 339751 A 19990624
National Class: * 455566000; 455090000; 455575000
IPC: * H04B-001/38; H04M-001/00
Derwent WPI Acc No: * G 95-360423
Language of Document: English

Patent (No,Kind,Date): US 6223058 BA 20010424
COMMUNICATION TERMINAL APPARATUS AND CONTROL METHOD THEREOF (English)
Patent Assignee: SONY CORP (US)

. Author (Inventor): SUDO FUKUHARU (JP); KUNIHIRO TAKUSHI (JP);
 KOBAYASHI TETSUO (JP); AJIRO ATSUSHI (JP); ODAKA KENTARO (JP);
 USHINO TATSUJI (JP); TERAUCHI TOSHIRO (JP)
 Priority (No,Kind,Date): US 193393 A 19981118; JP 94104350 A
 19940420; JP 94232327 A 19940831; US 932942 A3 19970917; US
 421945 B3 19950413
 Applic (No,Kind,Date): US 193393 A 19981118
 National Class: * 455564000; 455566000
 IPC: * H04B-001/38; H04M-001/00
 Derwent WPI Acc No: * G 95-360423
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5987336	P	19940420	US AA	PRIORITY (PATENT)
			JP 94104350 A	19940420
US 5987336	P	19940831	US AA	PRIORITY (PATENT)
			JP 94232327 A	19940831
US 5987336	P	19950413	US AA	PRIORITY
			US 421945 B1	19950413
US 5987336	P	19971021	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 950512 A	19971021
US 5987336	P	19991116	US A	PATENT
US 5999827	P	19940420	US AA	PRIORITY (PATENT)
			JP 94104350 A	19940420
US 5999827	P	19940831	US AA	PRIORITY (PATENT)
			JP 94232327 A	19940831
US 5999827	P	19950413	US AA	PRIORITY
			US 421945 B3	19950413
US 5999827	P	19970917	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 932942 A	19970917
US 5999827	P	19991207	US A	PATENT
US 5999827	P	20020625	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20011203	
US 6131048	P	19940420	US AA	PRIORITY (PATENT)
			JP 94104350 A	19940420
US 6131048	P	19940831	US AA	PRIORITY (PATENT)
			JP 94232327 A	19940831
US 6131048	P	19950413	US AA	PRIORITY
			US 421945 B3	19950413
US 6131048	P	19970917	US AA	PRIORITY
			US 932942 A3	19970917
US 6131048	P	19981118	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 195084 A	19981118
US 6131048	P	20001010	US A	PATENT
US 6138039	P	19940420	US AA	PRIORITY (PATENT)
			JP 94104350 A	19940420
US 6138039	P	19940831	US AA	PRIORITY (PATENT)
			JP 94232327 A	19940831
US 6138039	P	19950413	US AA	PRIORITY
			US 421945 B3	19950413
US 6138039	P	19970917	US AA	PRIORITY
			US 932942 A3	19970917
US 6138039	P	19981118	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 195082 A	19981118
US 6138039	P	20001024	US A	PATENT
US 6198948	P	19940420	US AA	PRIORITY (PATENT)
			JP 94104350 A	19940420
US 6198948	P	19940831	US AA	PRIORITY (PATENT)
			JP 94232327 A	19940831
US 6198948	P	19950413	US AA	PRIORITY
			US 421945 B3	19950413
US 6198948	P	19971021	US AA	PRIORITY (DIVISION)

US 6198948	P	19990624	US AE	APPLICATION DATA (PATENT)
		(APPL. DATA (PATENT))		
		US 339751	A	19990624
US 6198948	P	20010306	US BA	PATENT (NO PREVIOUS
		PRE-GRANT PUBLICATION)		
US 6223058	P	19940420	US AA	PRIORITY (PATENT)
		JP 94104350	A	19940420
US 6223058	P	19940831	US AA	PRIORITY (PATENT)
		JP 94232327	A	19940831
US 6223058	P	19950413	US AA	PRIORITY
		US 421945	B3	19950413
US 6223058	P	19970917	US AA	PRIORITY (DIVISION)
		US 932942	A3	19970917
US 6223058	P	19981118	US AE	APPLICATION DATA (PATENT)
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